DNET Services

DNET represents a comprehensive service for connecting a single terminal to multiple geographically dispersed hosts on a variety of networks.

Terminal to host access devices

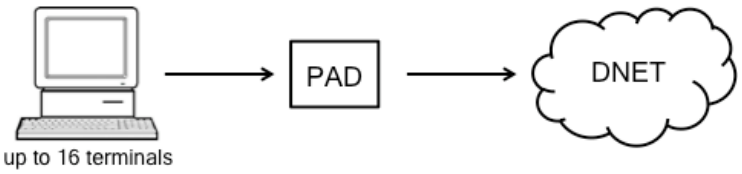
PAD *and* STATMUX *are communications devices used to concentrate multiple inputs or terminals at a single location into a single high-speed communications line.*

For clients using the standard DNET communication protocols and equipment, DNET provides several methods of terminal access. For users with *multiple* terminals requiring host access, the following two devices are available:

1. **X.25 packet assembler/disassembler service (PAD)**
2. **satellite transmission augmented terminal multiplexor (STATMUX)**

PAD service

The PAD service works by concentrating multiple inputs into a single high-speed line.



The number of inputs is dependent on the model of the PAD:

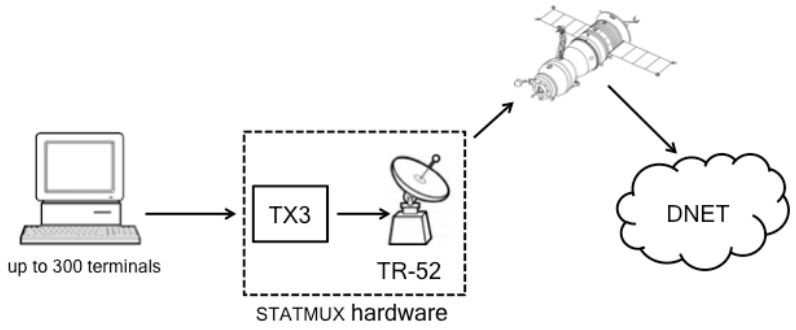
MEMOTEC SP/830	4 inputs
SP/8300	16 inputs

Clients receive the following when they lease a PAD connection to DNET:

- full duplex, error corrected synchronous communications line and modems running at 9600 bps
- X.25 PAD on user premise with up to 16 asynchronous connections
- full DNET connectivity at 9600 bps on all pad channels
- PAD configuration maintained by DNET
- maintenance and repairs of leased equipment (PADS, modems) and facilities (communications line) carried out by BC systems at no additional charge to the client

STATMUX service

The STATMUX service works by connecting up to 300 terminals to the DNET server infrastructure through dedicated high-bandwidth satellite uplink hardware. The STATMUX hardware comprises the TR-52 dish system and the TX3 digital amplification and compression module.



Clients receive the following when they lease a STATMUX connection to DNET:

- full bi-directional communication to dnet up to 7.8 gps on all terminals
- TX3 and TR-52 STATMUX hardware at each client site
- full DNET connectivity at 7.8gps on all STATMUX frequencies
- PAD configuration maintained by DNET

- maintenance and repairs of leased equipment (TX3 and TR-52) and facilities (communications lines) carried out by BC systems at no additional charge to the client

PAD and STATMUX devices are manufactured in Canada by Memotec Data and remain the property of BC Systems.

For troubleshooting call BC Systems at 389-3686

Installation costs

Network Services can provide installation services for client-owned equipment at standard BC System labor rates. The cost of connecting a terminal or host ports to either an X.25 PAD or to a STATMUX varies with location and user density. The rates for servicing up to 200 unique locations are listed in Appendix 1 under 'Network Service Rates' and assume the following are in place:

- network switch port
- modem
- asynchronous concentration device (PAD/STATMUX if required)
- full-duplex communication line at a speed of 9600 bps

Note: A one-time installation charge is added if any of the above items are required.

Additional charges may be applied for the following special assemblies (see Section 7 'Installation Services'):

- building wiring systems
- special cable or patching systems unique to individual users
- special communication lines
- non-standard modems
- uninterruptible power supplies (UPS)

In a single terminal installation, the client is responsible for interfacing their equipment to the modem. In multiple terminal installations, the client must interface their equipment to either the PAD or STATMUX.

Caution: Client-owned equipment connected into DNET components must be compatible with the EIA 232D standard. DNET cannot guarantee that those devices failing to meet EIA 232D requirements will operate as expected

Device support costs

Client-requested changes to existing PAD and STATMUX configurations, as listed below, are subject to one-time surcharges.

- asynchronous port speed parity change
- addition of a network printer port definition*
- adding switched virtual circuits to synchronous X.25 links

*Networked printers require dedicated Permanent Virtual Circuits (PVCs) within DNET and are subject to an additional monthly surcharge. Charges are not applied to local printers (i.e. not networked). See Appendix 1 ‘Network Services Rates’ for further information.